



ELEMENTS[®]
QUÍMICA APLICADA

e⁵
AI

**STABILIZER
ADDITIVE FOR CEMENT
HYDRATION**

DESCRIPTION

El **e⁵ AI** is an additive specially designed for making concrete, mortars and pastes containing Portland cement and requiring consistency retention. Its formula allows the workability of the mixture to be stable and prolonged, without considerable effects on the development of mechanical strength.

It's classified as a type B additive, according to NMX-C-255-ONNCCE and ASTM C-494.

BENEFITS

The use of **e⁵ AI** in concrete allows:

- Allows for longer transport in a fresh state
- Improves its placement in warm weather and fresh state
- Does not significantly impair mechanical strength
- Does not severely affect setting times except when over dosed
- Does not affect compatibility with any other chemistry developed by **Element5**
- Controls cement hydration and allows setting not to occur prematurely in high volume pours

TECHNICAL INFORMATION

- Specific gravity: 1.10
- Physical appearance: Amber colored liquid

PRESENTATION

- 18 L bucket
- 200 L drum
- 1000 L Tote
- Bulk

Useful life: 12 months in its original container

PRINCIPAL APPLICATIONS

e⁵ AI can be used for the production of the following concretes:

- Conventional concrete
- Pumped concrete
- Concrete cast in warm climate
- Self-consolidating concrete
- High mechanical strength and high performance concrete
- Wet cast concrete

DIRECTIONS FOR USE

For best results, it is recommended that laboratory tests be carried out on site materials. This allows all necessary adjustments to be made to the concrete mix. These can be: appearance, workability, consistency, air content, performance, setting times and admixture dosage.

Then, it is important to replicate tests at industrial level, under the real conditions of the site where the concrete will be manufactured (humidity, temperature, transfer times of fresh concrete, etc.), in order to make the final adjustments.

Aggregate **e⁵ AI** after the aggregates and cement are fully incorporated into the mixer unit and the required consistency (slump) is achieved for the release of the unit that will transport the fresh concrete.

Mix for one minute for each m³ of concrete at mixing speed. Never add the admixture to the cement without prior initial hydration, nor directly to the aggregates.

Dosages can vary from 0.5 to 8 mL/kg of cement. The dosage will depend on the design of the concrete to be produced.

Consult your **Element5 Integral Solutions Advisor** for the preparation of durable concretes along with economic benefits.

For any questions of the use of the product, please contact the **Element5 Technical Support** Department.

CAUTIONS

- Check the dosage in combination with integral waterproofing products, to control the dosage and avoid delays in the setting time
- When there is a decrease of the ambient temperature and therefore of the concrete, it will be necessary to review the dosage, since it can cause delays in the setting times
- With cements type RS (sulfate resistant) it will be necessary to carry out previous tests to establish the adequate dosage. This should be done according to the requirements to avoid prolonged setting delays
- Do not allow the product to freeze
- In case of any important variation in the materials (change of aggregates, cement, etc.), it is necessary to make the required adjustments in the established dosages
- Always keep the product closed in its original container, away from agents that could contaminate it. Do not damage the containers containing the product, as this may cause spillage. Consult the Safety Data Sheet (MSDS) before handling

Element5 Química Aplicada S.A. de C.V. guarantees that the product meets the established quality and that it is exempt of fabrication problems.

When the product is outside its established life, and it has been handled by the user, **Element5 Química Aplicada S.A. de C.V.** does not extend any type of additional warranty, as we have not control the present variables in the application or handling of the product.

The present document only contains general recommendations.

The technical interpretation that derives in specifications of our product is the user's responsibility.

That that is not written in this document and warranty is not contemplated.

If it's necessary to know in detail any data in reference to product or recommendations contact our **Element5 technical support**. Visit our website where our privacy statement is available for you.

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